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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,641	08/01/2003	Kow Ming Chang	DF-01601	2757
7590 04/21/2004			EXAMINER	
HAVERSTOCK & OWENS LLP ATTN: Jonathan O. Owens			WOJCIECHOWICZ,	EDWARD JOSEPH
162 N. Wolfe Road			ART UNIT	PAPER NUMBER
Sunnyvale, CA 94086			2815	

DATE MAILED: 04/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/632,641	CHANG ET AL
Office Action Summary	Examin r	Art Unit
	E Wojciechowicz	2815
- The MAILING DATE of this communicati		vith the correspondence address
eriod for R ply		
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) day of the provider reply is specified above, the maximum statutor Failure to reply within the set or extended period for reply set.	FION. CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of thing the period will apply and will expire SIX (6) MO y statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
atus		
1) Responsive to communication(s) filed or		
•—	This action is non-final.	
3) Since this application is in condition for a		ters, prosecution as to the merits is
closed in accordance with the practice u	·	•
·	, , , , , , , , , , , , , , , ,	
sposition of Claims		
4) Claim(s) 13-34 is/are pending in the app	lication.	
4a) Of the above claim(s) is/are w	ithdrawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>13-34</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	and/or election requirement.	
oplication Papers		
9) The specification is objected to by the Ex	aminer.	
10) The drawing(s) filed on is/are: a)		by the Examiner.
Applicant may not request that any objection		
Replacement drawing sheet(s) including the	correction is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-152.
riority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for f	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) All b) Some * c) None of:	in priority ariable do orollo.	3
1. Certified copies of the priority doc	uments have been received.	
2. Certified copies of the priority doc		Application No
3. Copies of the certified copies of the		
		Ţ
application from the International	buleau (FC) Rule 17.2(a)).	
application from the International * See the attached detailed Office action fo		t received.

4) Interview Summary (PTO-413)

6) Other: __

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

U.S. Patent and Trademark Office

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _____.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Art Unit: 2815

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 22 and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no antecedent basis for "first conducting layer" in claim 22, and "second conducting layer" in claim 25.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim. The reference to Kim shows all of the structural elements of the claimed invention. For example, regarding independent claims 13 and 27, Kim shows in Fig. 3, an insulating substrate (20), source/drain regions (21-2) and (21-3), a primary insulating layer (22) disposed on the source/drain layers, a primary gate (23) disposed on the primary insulating layer, a secondary insulating layer (25) disposed on the primary insulating

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layer, and a secondary gate (26-1) and (26-2) disposed on the secondary insulating layer and insulated from the primary gate via the secondary insulating layer.

Similarly, Kim shows the elements of the dependent claims including first and second portions of the secondary insulating layer (Fig. 5), first and second secondary gates formed on the first and second secondary insulating layers (Fig. 5), higher doped portions (27) and (37) of the source and drain, polysilicon source/drain areas (polysilicon body film 21), and a channel, where the length of the channel is the combined length of the primary gate, the secondary gate(s), and the thickness of the insulating layer (see col. 5, I 14-24 of Kim).

The metals described in claims 22 and 25, are the typical metals used to form FET gates, along with polysilicon, and thermally oxidizing a silicon gate or substrate, as is used by Kim, to form a silicon oxide insulating layer is conventional in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E Wojciechowicz whose telephone number is (571) 272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EW: ew

EDWARD WOJCIECHOWIGZ PRIMARY EXAMINER GROUP 2500

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